

For Research Use Only

CPA4 Polyclonal antibody

Catalog Number: 26824-1-AP **3 Publications**



Basic Information

Catalog Number: 26824-1-AP	GenBank Accession Number: BC052289	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 533 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51200	Recommended Dilutions: WB 1:500-1:1000 IHC 1:100-1:400
Source: Rabbit	Full Name: carboxypeptidase A4	
Isotype: IgG	Calculated MW: 421 aa, 47 kDa	
Immunogen Catalog Number: AG25327	Observed MW: 44 kDa, 150 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse heart tissue, SMMC-7721 cells, mouse kidney tissue, A549 cells, HepG2 cells IHC : human lung cancer tissue,
Cited Applications: IHC, WB	
Species Specificity: human, mouse	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Carboxypeptidase A4 (CPA4), a member of the metallo-carboxypeptidase family, is a zinc-containing exopeptidase that catalyzes the release of carboxy-terminal amino acids. CPA4 was previously shown to play a crucial role in cell growth and differentiation by modulating or inactivating peptide hormone activity (PMID: 27904708). CPA4 expression is increased in multiple cancer tissues, including tissues from patients with pancreatic cancer, gastric cancer, esophageal squamous cell carcinoma, and lung cancer, and may serve as a potential diagnostic and prognostic marker (PMID: 31397502, 32922037).

Notable Publications

Author	Pubmed ID	Journal	Application
Fernanda G Kugeratski	30723174	Sci Signal	WB
Luoling Wang	38049405	Cell Death Dis	WB
Xue Liu	37162264	Acta Biochim Biophys Sin (Shanghai)	WB,IHC

Storage

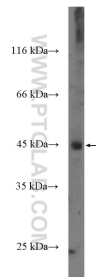
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

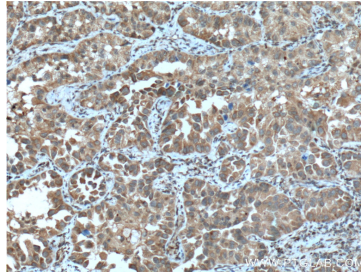
For technical support and original validation data for this product please contact:
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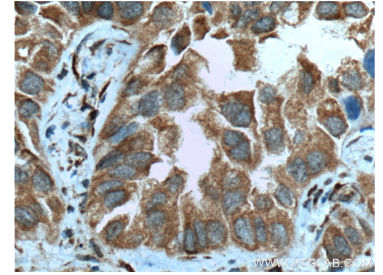
Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 26824-1-AP (CPA4 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 26824-1-AP (CPA4 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 26824-1-AP (CPA4 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).